

Substance Details Report

January 10, 2017

Core Metadata

Substance Type	Chemical Substance	Internal Tracking Number	2469
EPA Registry Name	1,1-Dimethylhydrazine	Substance Status	Approved
EPA Registry Name List	Chemical Identification		
Systematic Name	Hydrazine, 1,1-dimethyl-		
Systematic Name List	Chemical Abstracts Index Name		
Preferred Acronym			
CAS Number	57-14-7		
EPA Identification Number			
TSN Number			
Kingdom			
ICTVDB			
Molecular Formula	C2H8N2		
Molecular Weight	60.1		
Comment/Description			

Definition

Classifications

Associated Identifiers

Former CAS Numbers

88733-28-2

Incorrect CAS Numbers

108-31-6

Structure

Notation

N(N)(C)C

Notation Type

SMILES

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Synonym

Below are the EPA applications/systems, statutes/regulations, or other sources that track or regulate this substance. This table shows how each list refers to the substance.

Statutes/Regulations

Statutes/Regulations	Synonym	Synonym Quality	Effective Date	End Date
2016 CDR TSCA Inv	1,1-Dimethylhydrazine	Valid		
CAA 111	Dimethylhydrazine	Valid	01/05/1981	
CAA 112R	Hydrazine, 1,1-dimethyl-	Valid	01/31/1994	
CAA 112R	1,1-Dimethylhydrazine	Valid	01/31/1994	
CAA112(b) HAP	1,1-Dimethyl hydrazine	Valid		
CAA112(b) HAP	Dimethylhydrazine (1,1-)	Valid		
CAA112(b) HON	Dimethylhydrazine (1,1-)	Valid		
CERCLA	1,1-Dimethylhydrazine	Valid		
CERCLA	Hydrazine, 1,1-dimethyl-	Valid		
EPCRA 302	Dimethylhydrazine	Valid	11/17/1986	
EPCRA 313	1,1-Dimethyl hydrazine	Valid	01/01/1987	
RCRA Appendix VII	1,1-Dimethylhydrazine	Valid	05/19/1980	
RCRA Appendix VII	UDMH	Valid	05/19/1980	
RCRA Appendix VIII	1,1-Dimethylhydrazine	Valid		
RCRA Appendix VIII	Hydrazine, 1,1-dimethyl-	Valid		
RCRA U Waste	Hydrazine, 1,1-dimethyl-	Valid	11/25/1980	
RCRA U Waste	1,1-Dimethylhydrazine	Valid	11/25/1980	
TSCA Inv	Hydrazine, 1,1-dimethyl-	Valid		

EPA Applications/Systems

EPA Application/System	Synonym	Synonym Quality	Effective Date	End Date
2012 CDR	Hydrazine, 1,1-dimethyl-	Valid		
CAMEO Chemicals	1,1-Dimethylhydrazine	Valid		
CERCLIS3	1,1-Dimethylhydrazine	Valid		
CERCLIS3	Dimethylhydrazine	Valid		
CORR	1,1-Dimethyl hydrazine	Valid		
ECOTOX	1,1-Dimethylhydrazine	Valid		

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EPA Application/System	Synonym	Synonym Quality	Effective Date	End Date
ECOTOX	Unsymmetrical dimethylhydrazine	Valid		
EIS	1,1-Dimethyl hydrazine	Valid	01/01/1970	
ERNS	1,1-Dimethylhydrazine	Valid		
ERNS	Dimazine	Trade Name		
ERNS	UDMH	Valid		
GCES	Hydrazine, 1,1-dimethyl-	Valid		
ICIS-Air	1,1-Dimethylhydrazine	Valid		
OPPIN	1,1-Dimethylhydrazine (as impurity only; no longer cleared as inert)	Valid		
PCS	1,1-Dimethylhydrazine	Valid		
RMP*Info	1,1-Dimethyl hydrazine	Valid		
RMP*Info	Hydrazine, 1,1-dimethyl-	Valid		
TRIPS	1,1-Dimethyl hydrazine	Valid		
TSCATS	Hydrazine, 1,1-dimethyl-	Valid		
Other Sources				
Other Sources	Synonym	Synonym Quality	Effective Date	End Date
ATSDR	1,1-Dimethylhydrazine	Valid		
CA Index	Hydrazine, 1,1-dimethyl-	Valid		
CFATS	1,1-Dimethylhydrazine	Unknown	08/08/2013	
CUS02	Hydrazine, 1,1-dimethyl-	Valid		
CUS94	Hydrazine, 1,1-dimethyl-	Valid		
CUS98	Hydrazine, 1,1-dimethyl-	Valid		
ChemIDStd	1,1-Dimethylhydrazine	Valid		
FDA	1,1-DIMETHYLHYDRAZINE	Unknown		
HSDB	1,1-Dimethylhydrazine	Valid		
IARC	1,1-Dimethylhydrazine	Valid		
ITER	1,1-Dimethylhydrazine	Valid	12/19/2014	

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Other Sources	Synonym	Synonym Quality	Effective Date	End Date
NJ-RTK-HS	1,1-Dimethylhydrazine	Valid		
NTP Chemical Repository	1,1-Dimethylhydrazine	Valid		
OSHA PSM-29 CFR 1910.119 App A	Dimethylhydrazine, 1,1-	Unknown	08/11/2013	

Ad Hoc List

Ad Hoc List	Synonym	Synonym Quality	Effective Date	End Date
AEGL	1,1-dimethylhydrazine-10	Unknown		
AEGL	1,1-dimethylhydrazine-10	In Review		
RSL	Dimethylhydrazine, 1,1-	Unknown		

EPA Synonyms

There are no Synonyms of this type.

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Component Of

Systematic Name	Synonym	CAS Number	TSN	EPA Identifier	Effective Date	End Date
Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	K110			E741975	05/19/1980	
Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	K108			E741959	05/19/1980	
Column bottoms from product separation from the production of 1,1-dimethyl-hydrazine (UDMH) from carboxylic acid hydrazines.	K107			E741942	05/19/1980	
Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	K109			E741967	05/19/1980	
Volatile organic compounds	VOCs			E761346		

Related References

<http://www.cdc.gov/niosh/docs/1970/78-172.html>
http://www.osha.gov/dts/chemicalsampling/data/CH_236300.html
<http://www.cdc.gov/niosh/ipcsneng/neng0147.html>
<http://nj.gov/health/eoh/rtkweb/documents/fs/0761.pdf>
<http://www.atsdr.cdc.gov/mrls/mrllist.asp>
<http://chem.sis.nlm.nih.gov/chemidplus/direct.jsp?regno=57-14-7&result=advanced>
<http://www.epa.gov/ttn/atw/hlthef/dimethyl.html>
<http://www.atsdr.cdc.gov/toxfaqs/tf.asp?id=500&tid=89>

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<http://www.atsdr.cdc.gov/toxprofiles/tp.asp?id=502&tid=89>

<http://yosemite.epa.gov/oppts/epatscat8.nsf/ReportSearch?OpenAgent&CASNumber=57-14-7>

<http://fdasis.nlm.nih.gov/srs/srsdirect.jsp?regno=4WPQ90N53J>

<http://chem.sis.nlm.nih.gov/chemidplus/direct.jsp?regno=0000057147>

https://iter.ctc.com/publicURL/p_report_view_list.cfm?crn=57%2D14%2D7

https://iter.ctc.com/publicURL/p_report_view_list.cfm?crn=108%2D31%2D6